

```
// --- Taste AI: Simple Flavor Pairing & Recipe Recommendation ---
```

```
// Hardcoded dataset representing a basic "flavor network"
```

```
Const flavorData = {
```

```
  "apple": {
```

```
    Pairings: ["cinnamon", "caramel", "pork", "cheddar", "walnuts"],
```

```
    Recipes: [
```

```
      "Apple Crumble: Baked apples with a crunchy cinnamon-oat topping.",
```

```
      "Pork Chops with Apple Sauce: Pan-seared pork chops with a homemade apple  
sauce.",
```

```
      "Apple and Walnut Salad: Fresh apple slices, walnuts, and blue cheese on a bed of  
greens."
```

```
    ]
```

```
  },
```

```
  "tomato": {
```

```
    Pairings: ["basil", "mozzarella", "garlic", "oregano", "balsamic vinegar"],
```

```
    Recipes: [
```

```
      "Caprese Salad: Sliced tomatoes, fresh mozzarella, and basil with a balsamic glaze.",
```

```
      "Classic Tomato Soup: A simple, hearty soup with fresh tomatoes and herbs.",
```

```
      "Bruschetta: Toasted bread rubbed with garlic and topped with fresh tomatoes and  
basil."
```

```
    ]
```

```
  },
```

```
  "chocolate": {
```

```
    Pairings: ["strawberry", "raspberry", "orange", "chili", "coffee"],
```

```
    Recipes: [
```

```
      "Chocolate-Dipped Strawberries: A simple and classic dessert.",
```

“Chocolate Lava Cakes: Warm chocolate cakes with a molten center, served with raspberries.”,

“Spicy Chili Chocolate: A unique flavor combination perfect for a hot chocolate or dessert sauce.”

]

},

“chicken”: {

Pairings: [“lemon”, “thyme”, “rosemary”, “garlic”, “paprika”],

Recipes: [

“Roasted Lemon-Herb Chicken: Whole chicken roasted with lemon, thyme, and rosemary.”,

“Garlic and Paprika Chicken Skewers: Grilled chicken skewers marinated in garlic and paprika.”,

“Chicken and Veggie Stir-Fry: Quick stir-fry with chicken and your favorite vegetables.”

]

}

};

// Get references to HTML elements

Const ingredientInput = document.getElementById(‘ingredient-input’);

Const searchBtn = document.getElementById(‘search-btn’);

Const resultsContainer = document.getElementById(‘results-container’);

// Event listener for the search button

searchBtn.addEventListener(‘click’, searchFlavors);

// Event listener for pressing ‘Enter’ in the input field

```
ingredientInput.addEventListener('keypress', e => {  
  if (e.key === 'Enter') {  
    searchFlavors();  
  }  
});
```

// Function to handle the search

```
Function searchFlavors() {  
  Const query = ingredientInput.value.trim().toLowerCase();  
  resultsContainer.innerHTML = ''; // Clear previous results  
  
  if (!query) {  
    resultsContainer.innerHTML = '<p class="no-results">Please enter an ingredient.</p>';  
    return;  
  }  
  
  Const result = flavorData[query];  
  
  If (result) {  
    displayResults(query, result);  
  } else {  
    resultsContainer.innerHTML = '<p class="no-results">Sorry, no pairings found for that  
ingredient. Try "Apple" or "Chocolate"!</p>';  
  }  
}
```

```
// Function to display the search results
```

```
Function displayResults(ingredient, data) {
```

```
    Const cardHtml = `
```

```
        <div class="result-card">
```

```
            <h2>Pairings for ${capitalizeFirstLetter(ingredient)}</h2>
```

```
            <ul>
```

```
                ${data.pairings.map(p => `<li>${capitalizeFirstLetter(p)}</li>`).join("")}
```

```
            </ul>
```

```
            <h3>Recommended Recipes</h3>
```

```
            <ul>
```

```
                ${data.recipes.map(r => `<li>${r}</li>`).join("")}
```

```
            </ul>
```

```
        </div>
```

```
    `;
```

```
    resultsContainer.innerHTML = cardHtml;
```

```
}
```

```
// Helper function to capitalize the first letter of a string
```

```
Function capitalizeFirstLetter(string) {
```

```
    Return string.charAt(0).toUpperCase() + string.slice(1);
```

```
}
```